



United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

October 22, 2009

Amy Jean Mckeown - HBR
US EPA New England Region 1
One Congress Street
Boston, MA 02114 - 2023

Project Number: 09100015

Project: American Tissue Mills of Maine - Augusta, ME

Analysis: PCBs Medium Level in Soils and Sediments

Analyst: Paul Carroll

Paul Carroll
10.22.09

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, PESTSOIL3.SOP.

The analysis was performed using high resolution capillary column chromatography on an Agilent 6890 Series gas chromatograph equipped with dual electron capture detectors. The 30 meter dual capillary column system consists of a J&W DB-5 and J&W DB-1701, both with 0.25mm ID and 0.25 micron film thickness.

The results are reported on a dry weight basis.

Date Samples Received by the Laboratory : 10/13/2009

Data were reviewed in accordance with the internal verification procedures described in the EPA New England OEME Chemistry QA Plan.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

Report may contain multiple sections and each section will be numbered independently.

If you have any questions please call me at 617-918-8340 .

Sincerely,

Daniel N. Boudreau 10/26/09

Daniel N. Boudreau
Chemistry Team Leader

Qualifiers:	RL	Reporting limit
	ND	Not Detected above Reporting limit
	NA	Not Applicable due to high sample dilutions or sample interferences
	J	Estimated value
	E	Estimated value exceeds the calibration range
	L	Estimated value is below the calibration range
	B	Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 10 times the concentration in the blank.
	P	The confirmation value exceeded 35% difference and is less than 100%. The lower value is reported.
	C	The identification has been confirmed by GC/MS.
	R	No recovery was calculated since the analyte concentration is greater than four times the spike level.

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American Tissue Mills of Maine - Augusta, ME

PCBs Medium Level in Soils and Sediments

Client Sample ID: B-102
Date of Collection: 10/12/2009
Date of Extraction: 10/19/09
Date of Analysis: 10/21/09
Dry Weight Extracted: 5.36 grams
Wet Weight Extracted: 5.57 grams

Lab Sample ID: AA99276
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 96%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.09	
11104-28-2	Aroclor-1221	ND	0.09	
11141-16-5	Aroclor-1232	ND	0.09	
53469-21-9	Aroclor-1242	ND	0.09	
12672-29-6	Aroclor-1248	ND	0.09	
11097-69-1	Aroclor-1254	ND	0.09	
11096-82-5	Aroclor-1260	0.90	0.09	
11100-14-4	Aroclor-1262	ND	0.09	
37324-23-5	Aroclor-1268	ND	0.09	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	66	36 - 131
Decachlorobiphenyl	78	30 - 165

Comments:

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American Tissue Mills of Maine - Augusta, ME

PCBs Medium Level in Soils and Sediments

Client Sample ID: B-127
Date of Collection: 10/12/2009
Date of Extraction: 10/19/09
Date of Analysis: 10/21/09
Dry Weight Extracted: 4.76 grams
Wet Weight Extracted: 5.62 grams

Lab Sample ID: AA99301
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 85%
Extract Dilution: 5

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.53	
11104-28-2	Aroclor-1221	ND	0.53	
11141-16-5	Aroclor-1232	ND	0.53	
53469-21-9	Aroclor-1242	5.7	0.53	
12672-29-6	Aroclor-1248	ND	0.53	
11097-69-1	Aroclor-1254	ND	0.53	
11096-82-5	Aroclor-1260	ND	0.53	
11100-14-4	Aroclor-1262	ND	0.53	
37324-23-5	Aroclor-1268	ND	0.53	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	78	36 - 131
Decachlorobiphenyl	93	30 - 165

Comments: Field results for this sample were inconclusive. Although a PCB appeared to be present, no exact Aroclor patterns were identified. No PCBs were reported for the field results and the sample was chosen as one of the confirmation samples. Confirmation results were equally inconclusive. However, we are reporting Aroclor 1242 for the confirmation sample because the pattern is similar to that of Ar1242 (but not exact).

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American Tissue Mills of Maine - Augusta, ME

PCBs Medium Level in Soils and Sediments

Client Sample ID: B-128
Date of Collection: 10/12/2009
Date of Extraction: 10/19/09
Date of Analysis: 10/21/09
Dry Weight Extracted: 4.97 grams
Wet Weight Extracted: 5.21 grams

Lab Sample ID: AA99302
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 95%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	ND	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	75	36 - 131
Decachlorobiphenyl	87	30 - 165

Comments:

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American Tissue Mills of Maine - Augusta, ME

Laboratory Blank

Client Sample ID: N/A
Date of Collection: N/A
Date of Extraction: 10/19/09
Date of Analysis: 10/21/09
Dry Weight Extracted: 5.13 grams
Wet Weight Extracted: 5.13 grams

Lab Sample ID: N/A
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 100%
Extract Dilution: 1

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	ND	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	55	36 - 131
Decachlorobiphenyl	69	30 - 165

Comments:

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PCB MATRIX SPIKE (MS) / MATRIX SPIKE DUPLICATE (MSD) RECOVERY

American Tissue Mills of Maine - Augusta, ME

Sample ID: AA99302

PARAMETER	SPIKE ADDED mg/Kg	SAMPLE CONCENTRATION mg/Kg	MS CONCENTRATION mg/Kg	MS % REC	QC LIMITS (% REC)
Aroclor-1016	0.60	ND	0.60	100.50	70 - 130
Aroclor-1260	0.60	ND	0.54	90.45	53 - 130

PARAMETER	MSD SPIKE ADDED	MSD CONCENTRATION mg/Kg	MSD % REC	RPD %	QC LIMITS RPD
Aroclor-1016	0.61	0.58	95.24	5	50
Aroclor-1260	0.61	0.61	100.16	10	50

Samples in Batch: AA99276, AA99301, AA99302

Comments:

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LABORATORY DUPLICATE RESULTS

American Tissue Mills of Maine - Augusta, ME

Sample ID: AA99302

PARAMETER	SAMPLE RESULT mg/Kg	SAMPLE DUPLICATE RESULT mg/Kg	PRECISION RPD %	QC LIMITS
Aroclor-1016	ND	ND	ND	50
Aroclor-1221	ND	ND	ND	50
Aroclor-1232	ND	ND	ND	50
Aroclor-1242	ND	ND	ND	50
Aroclor-1248	ND	ND	ND	50
Aroclor-1254	ND	ND	ND	50
Aroclor-1260	ND	ND	ND	50
Aroclor-1262	ND	ND	ND	50
Aroclor-1268	ND	ND	ND	50



Summit Environmental Consultants, Inc.
Sample Chain Of Custody



EPA PN. 09100015	PAGE 1 of 2
Summit Environmental 434 Cony Road Augusta, ME 04240 Tel # 207-621-8334 Fax# 207-626-9094	Project Number: 10861 Client: CITY OF AUGUSTA Location: AMERICAN TISSUE Project Manager: John Cressey Date Results Due:

Samples Taken By: JOHN CRESSEY	Date Samples Taken: 10-12-09
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Lab #	Sample #	Sample Location/ Description	Analysis	Results
B-101	910	CONCRETE NEAR BLDG 11	PCB	
B-102	915	CONCRETE NEAR BLDG 11		
B-103	918	SOIL NEAR BLDG 11		
B-104	930	CONCRETE NEAR BLDG 11		
B-105	935	SOIL NEAR BLDG 11		
B-106	945	CONCRETE NEAR BLDG 11		
B-107	1000	SOIL NEAR BLDG 7		
B-108	1015	CONCRETE NEAR BLDG. 6		
B-109	1020	CONCRETE NEAR BLDG. 6		
B-110	1025	SOIL NEAR BLDG. 7		
B-111	1027	SOIL NEAR BLDG. 7		
B-112	1030	SOIL NEAR BLDG 7		
B-113	1031	SOIL NEAR BLDG. 7		
B-114	1050	SOIL NEAR BLDG. 14		
B-115	1104	CONCRETE NEAR BLDG. 14		

ND=None Detected

NA=Not Analyzed

NEMTA=Not Enough Material To Analyze

Relinquished By: <i>[Signature]</i>	Date: 10-12	Received By: <i>[Signature]</i>	Date: 10/13/09
Company: Summit Environmental	Time: 3:00	Company: ESAT	Time: 11:00



Summit Environmental Consultants, Inc.
Sample Chain Of Custody



EPA PN: 09100015		PAGE 2 of 2	
Summit Environmental 434 Cony Road Augusta, ME 04240 Tel # 207-621-8334 Fax# 207-626-9094		Project Number: 10861	
		Client: CITY OF AUGUSTA	
		Location: AMERICAN TISSUE	
		Project Manager: John Cressey	
		Date Results Due:	

Samples Taken By: JOHN CRESSEY	Date Samples Taken: 10-12-09
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Lab #	Sample #	Sample Location/ Description	Analysis	Results
	B-116	1110 - CONCRETE NEAR BLDG 14	PCB ↓	
	B-117	1118 - CONCRETE NEAR BLDG 14		
	B-118	1123 - SOIL NEAR BLDG. 14		
	B-119	1128 - SOIL NEAR BLDG. 14		
	B-120	1137 - CONCRETE NEAR BLDG. 14		
	B-121	1154 - CONCRETE NEAR BLDG. 14		
	B-122	1155 - SOIL NEAR BLDG. 14		
	B-123	1157 - SOIL NEAR CAPACITOR BANK		
	B-124	1158 - SOIL NEAR CAPACITOR BANK		
	B-125	1210 - CONCRETE NEAR WWTP		
	B-126	1215 - CONCRETE NEAR WWTP		
	B-127	1220 - SOIL NEAR WWTP		
	B-128	1230 - CONCRETE NEAR WWTP		
	B-129	1235 - CONCRETE NEAR WWTP		
	B-130	1000 - SOIL NEAR BLDG 6		

ND=None Detected

NA=Not Analyzed

NEMTA=Not Enough Material To Analyze

Relinquished By:	Date: 10-12	Received By:	Date: 10/13/09
Company: Summit Environmental	Time: 3:00	Company: ESAI	Time: 11:00